

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

FEASTER, *et al.*

Serial No.: 09/848,370

Filed: 4 May 2001

For: ASSAY FOR DETECTING, MEASURING AND  
MONITORING THE ACTIVITIES AND  
CONCENTRATIONS OF PROTEINS AND METHODS OF  
USE THEREOF

Art Unit: 1651

Examiner: Sandra Saucier

Atty. Dckt: 034047.003 WRAIR 00-  
23

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. 1.322**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**ATTN: Certificate of Correction Branch**

Dear Sir:

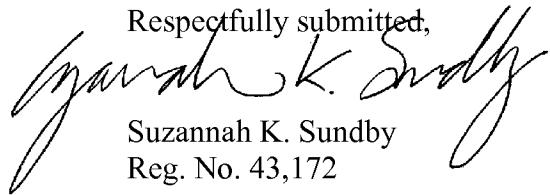
Applicants respectfully request the U.S. Patent & Trademark Office (USPTO) to issue a Certificate of Correction in U.S. Patent Application Serial No. 09/848,370, now U.S. Patent No. 6,746,850 under 37 C.F.R. 1.322.

The requested corrections are attached on Form PTO-1050.

Specifically, an amendment under 37 C.F.R. 1.312 was submitted on 21 January 2004. The Examiner indicated that the 312 Amendment would be entered and on 10 March 2004 the Examiner indicated that the amendment had been considered and entered. The Issue and Publication Fees were submitted on 26 January 2004.

Since all of the errors are ascribable to the USPTO, no fees are required.

If, however, any fees are required, such are authorized to be charged to **Deposit Account No. 210-380**, Attorney Docket No. **034047.003 WRAIR 00-23**.

Respectfully submitted,  
  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : **6,746,850**

Page 1 of 3

APPLICATION NO.: **09/848,370**

ISSUE DATE : **8 June 2004**

INVENTOR(S) : **Feaster et al.**

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 36, line 52, after “adrenal”, please change “and” to --or--.

In column 36, after the last line, please add the following:

--16. A method of detecting or confirming whether a subject was exposed to an agent which affects the activity or concentration of a protein, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, comprising

obtaining the test sample from the subject;

conducting the assay of claim 1; and

comparing the activity or the concentration of the protein in the test sample with a standard.

17. The method of claim 16, wherein the protein is a cholinesterase.

18. A method of determining the identity of an agent which affects the activity or concentration of a protein, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, to which a subject was exposed comprising

obtaining the test sample from the subject;

conducting the assay of claim 1; and

comparing the activity or the concentration of the protein in the test sample with a database of activity and concentration profiles for agents which affect the concentration or activity of the protein or the plurality of proteins, or both.

19. The method of claim 18, wherein the protein is a cholinesterase.
20. A method of determining the efficacy or monitoring the progress of a treatment regime, wherein a subject is administered a compound which affects the activity or concentration of a protein, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, comprising
  - obtaining the test sample from the subject;
  - conducting the assay of claim 1; and
  - monitoring the activities or the concentrations of the protein as a function of time of the treatment regime.
21. A method of determining whether a subject suffers from a drug sensitivity or a disease which affects the activity or concentration of a protein, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, comprising
  - obtaining the test sample from the subject;
  - conducting the assay of claim 1; and
  - comparing the activity or the concentration of the protein in the test sample with a database of activity and concentration profiles for the protein which are typical of individuals suffering from given drug sensitivities and individuals suffering from given diseases which affect the activity or concentration of the protein, or both.
22. A method of measuring the concentration of red blood cells in a subject comprising
  - obtaining the test sample from the subject;

**Page 3 of 3**

conducting the assay of claim 5;  
determining a relationship between standard concentrations of red blood cells  
and the activities or the concentrations of acetylcholinesterase, butyrylcholinesterase, or  
both; and  
using the relationship to calculate the concentration of red blood cells of the  
sample.

23. A method of screening for a candidate compound which affects the activity or  
concentration of a protein, wherein the protein belongs to a plurality of proteins and the  
plurality of proteins have similar or overlapping properties towards a plurality of  
substrates, comprising

conducting the assay of claim 1;  
contacting the candidate compound with the protein; and  
determining whether the concentration or activity of the protein in the test sample  
changes. --

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VA 22313-1450.**